

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/125 H01S5/0683

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 385 537 A (PHILIPS NV) 5 September 1990 (1990-09-05) cited in the application page 4, line 17 - page 6, line 49 abstract	1-10
A	US 4 577 320 A (SAKAMOTO MASAHARU ET AL) 18 March 1986 (1986-03-18) column 2, line 46 - column 4, line 14; figure 1 abstract	1-10
A	US 4 894 525 A (KAKUTA YOSHIYUKI) 16 January 1990 (1990-01-16) column 3, line 25 - column 6, line 8; figures 2-5 abstract	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents:

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

14 September 2004

Date of mailing of the international search report

21/09/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 059 780 A (ADACHI MASATOSHI ET AL) 22 October 1991 (1991-10-22) column 5, line 17 - column 6, line 34; figure 2</p>	1-10

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0385537	A	05-09-1990	GB 2229268 A	19-09-1990
			CA 2010788 A1	27-08-1990
			DE 69015382 D1	09-02-1995
			DE 69015382 T2	13-07-1995
			EP 0385537 A2	05-09-1990
			JP 2265033 A	29-10-1990
			US 5067122 A	19-11-1991
US 4577320	A	18-03-1986	JP 1980043 C	17-10-1995
			JP 4067260 B	27-10-1992
			JP 59146457 A	22-08-1984
			DE 3404444 A1	16-08-1984
US 4894525	A	16-01-1990	JP 2079229 A	19-03-1990
			JP 2112335 C	21-11-1996
			JP 8027958 B	21-03-1996
US 5059780	A	22-10-1991	JP 2935268 B2	16-08-1999
			JP 3095735 A	22-04-1991
			JP 2795483 B2	10-09-1998
			JP 3113737 A	15-05-1991
			JP 2795484 B2	10-09-1998
			JP 3113738 A	15-05-1991